

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Ioannis Pavlidis et al.

Group Art Unit: 2621

Serial No.: 10/034,761

Examiner: Unassigned

Filed: December 27, 2001

Docket No.: 115.00270101

Confirmation No.: 1894

Title: MOVING OBJECT ASSESSMENT SYSTEM AND METHOD

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Assistant Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

- ☒ An itemized return postcard.
- ☐ A Petition for Extension of Time for ___ month(s) and a check in the amount of \$___ for the required fee.
- ☒ An Information Disclosure Statement (3 pgs); copies of 2 applications; 1449 forms (4 pgs); and copies of 30 documents cited on the 1449 forms.
- ☐ A check in the amount of \$___, for ___.
- ☐ A certified copy of a ___ application, Serial No. __, filed _____, the right of priority of which is claimed under 35 U.S.C. §119.
- ☐ Other: _____
- ☐ Amendment ___ No Additional fee is required. ___ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$18 =	
Independent Claims				x \$84 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$280 Here →					
Total Additional Claim Fees Required					

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

CERTIFICATE UNDER 37 C.F.R. §1.8: The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA, 22202 on this 16th day of July, 2002.

MUETING, RAASCH & GEBHARDT, P.A.

Customer Number: 26813



26813

PATENT TRADEMARK OFFICE

By:

Name: Mark J. Gebhardt

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(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)



PATENT
Docket No. 115.00270101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Ioannis Pavlidis et al.) Group Art Unit: 2621
Serial No.: 10/034,761) Examiner: Unassigned
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Filed: December 27, 2001)
For: MOVING OBJECT ASSESSMENT SYSTEM AND METHOD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
P.O. Box 2327
Arlington, VA 22202

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Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. § 609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to the following pending U.S. Applications, as well as any prior art and any provisional U.S. patent applications referenced therein. A copy of each of the below-listed pending U.S. Patent Applications is provided herewith.

Information Disclosure Statement

Page 2 of 3

Applicant(s): Ioannis Pavlidis et al.

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List of Pending Non-Published U.S. Patent Applications

Applicant(s)	Application Number	Filing Date	Serial No. of Provisional Application to which listed Application claims priority
Ioannis Pavlidis	10/034,696	12/27/01	60/302,020
Ioannis Pavlidis et al.	10/034,780	12/27/01	60/302,020

List of Patent Application Publications

Applicant(s)	Patent Application Publication Number	Publication Date

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

Information Disclosure Statement

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Serial No.: 10/034,761
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The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

Respectfully submitted for

Ioannis Pavlidis et al.

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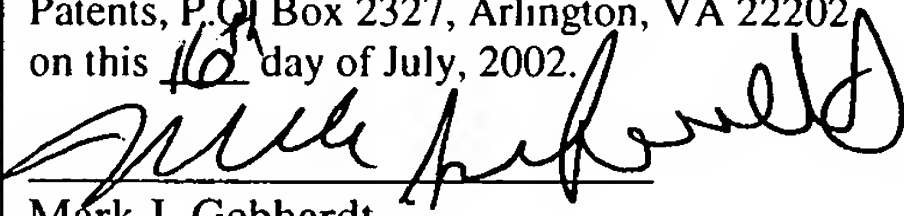
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Reg. No. 35,518

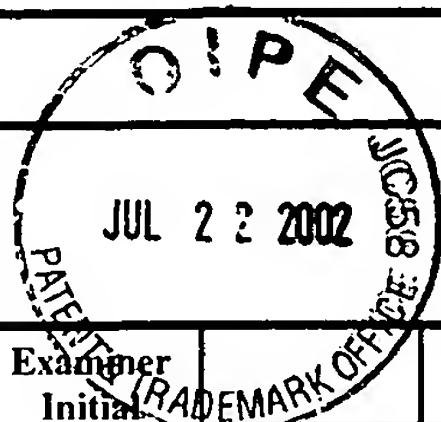
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CERTIFICATE UNDER 37 C.F.R. 1.8:
The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202, on this <u>16th</u> day of July, 2002.  Mark J. Gebhardt

Date

16 July 2002

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 115.00270101	Serial No.: 10/034,761
	Applicant: Ioannis Pavlidis et al.	Confirmation No.: 1894
	Filing Date: Dec. 27, 2001	Group: 2621
	Information Disclosure Statement mailed:	July <u>16</u> , 2002

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	None					

RECEIVED**JUL 24 2002****FOREIGN PATENT DOCUMENTS**

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Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	None						

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
	Anderson et al., "Change detection and tracking using pyramid transform techniques," <i>Intelligent Robots and Computer Vision: Proceedings of SPIE – The International Society for Optical Engineering</i> , 1985; 579:72-78.
	Blackman, <i>Multiple-Target Tracking with Radar Applications</i> , 1986, Artech House, Dedham, MA, Cover page, Publication page, and Table of Contents only. (7 pgs.).
	Buntine, "Learning classification trees," <i>Statistics and Computing</i> , 1992; 2:63-73.
	Collins et al., "A system for video surveillance and monitoring: Vsam final report," <i>Tech. Rep. CMU-RI-TR-00-12</i> , Robotics Institute, Carnegie Mellon Univ., Pittsburgh, PA, 2000, 1-68.
	Comaniciu et al., "Real-time tracking of non-rigid objects using mean shift," <i>Proceedings 2000 IEEE Conference on Computer Vision and Pattern Recognition</i> , Hilton Head Island, SC, 2000 June 13-15; 2:142-149.
	Cox et al., "An efficient implementation of Reid's multiple hypothesis tracking algorithm and its evaluation for the purpose of visual tracking," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1996; 18(2):138-150.

EXAMINER	Date Considered
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 115.00270101	Serial No.: 10/034,761
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JUL 2 2 2002	Information Disclosure Statement mailed:	July <u>16</u> , 2002

Examiner Initial	Document Description
	Dempster et al., "Maximum likelihood from incomplete data via the <i>EM</i> algorithm (with discussion)," <i>Journal of the Royal Statistical Society B</i> , 1977; 39(1):1-38.
	Elgammal et al., "Non-parametric model for background subtraction," <i>Computer Vision – ECCV 2000</i> , Vernon, ed., Springer-Verlag, Berlin Heidelberg, 751-767.
	Gao et al., "Error analysis of background adaptation," <i>Proceedings 2000 IEEE Conference on Computer Vision and Pattern Recognition</i> , Hilton Head Island, SC, 2000 June; 1:503-510.
	Grimson et al., "Using adaptive tracking to classify and monitor activities in a site," <i>Proceedings 1998 IEEE Conference on Computer Vision and Pattern Recognition</i> , Santa Barbara, CA, 1998 June 23-25; 22-29.
	Haritaoglu et al., "W ⁴ S: A real-time system for detecting and tracking people in 2 1/2d," <i>Proceedings 5th European Conference on Computer Vision</i> , 1998 June 2-6; Freiburg, Germany, 1:877-892.
	Hartley et al., <i>Multiple View Geometry in Computer Vision</i> , 2000, Cambridge UP, Cover pg., Publication pg., and 69-116.
	Horn, <i>Robot Vision</i> , The MIT Press, Cambridge, Mass., 1986; Cover page, Publication page, Table of Contents, and 66-69.
	Jeffreys, <i>Theory of Probability</i> , Univ. Press, Oxford, 1948, Cover page, Publication page, and Table of Contents only. (4 pgs.)
	Kanade et al., "Advances in cooperative multi-sensor video surveillance," <i>Proceedings DARPA Image Understanding Workshop</i> , 1998 Nov. 20-23; Monterey Cali., 3-24.
	Kanatani, "Optimal homography computation with a reliability measure," <i>Proceedings of the IAPR Workshop on Machine Vision Applications</i> , 1998 Nov. 17-19; Makuhari, Chiba, Japan:426-429.
	Kanatani, <i>Statistical Optimization for Geometric Computer Vision: Theory and Practice</i> , 1996, Elsevier Science, Amsterdam, Netherlands, Cover page, Publication page, and Table of Contents only. (7 pgs.).

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	Applicant: Ioannis Pavlidis et al.	Confirmation No.: 1894
	Filing Date: Dec. 27, 2001	Group: 2621
Information Disclosure Statement mailed:		July <u>11</u> , 2002

Examiner Initial	TRADEMARK OFFICE	Document Description
		Lee et al., "Monitoring activities from multiple video streams: Establishing a common coordinate frame," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000 Aug.; 22(8):758-767.
		Lin, "Divergence measures based on the shannon entropy," <i>IEEE Transactions on Information Theory</i> , 1991; 37(1):145-151.
		McLachlan et al., <i>Mixture Models Interference and Applications to Clustering</i> , 1988, Marcel Dekker, New York.
		Oliver et al., "A bayesian computer vision system for modeling human interactions," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000 Aug.; 22(8):831-843.
		Ormoneit et al., "Learning and tracking human motion using functional analysis," <i>Proceedings 2000 IEEE Workshop on Human Modeling, Analysis, and Synthesis</i> , Hilton Head Island, SC, 2000 June;2-9. (8 pgs.).
		Pavlidis et al., "Urban Surveillance Systems: From the Laboratory to the Commercial World," <i>IEEE Proceedings</i> , 2001 Oct.; 89(10):1478-1497.
		Ratches, "Aided and automatic target recognition based upon sensory inputs from image forming systems," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1997; 19(9):1004-1019.
		Reid, "An algorithm for tracking multiple targets," <i>IEEE Transactions on Automatic Control</i> , 1979; 24(6):843-854.
		Sacchi et al., "A distributed surveillance system for detection of abandoned objects in unmanned railway environments," <i>IEEE Transactions on Vehicular Technology</i> , 2000 Sept.; 49(5):2013-2026.
		Stauffer et al., "Adaptive background mixture models for real-time tracking," <i>Proceedings 1999 IEEE Conference on Computer Vision and Pattern Recognition</i> , Fort Collins, Col., 1999 June 23-25; 2:246-252.
		Stauffer et al., "Learning patterns of activity using real-time tracking," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000; 22(8):747-767.

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Examiner Initial	Document Description
	Stringa et al., "Real-time video-shot detection for scene detection for scene surveillance applications," <i>IEEE Transactions on Image Processing</i> , 2000 Jan.; 9(1):69-79.
	Tsiamyrtzis, <i>A Bayesian Approach to Quality Control Problems</i> , Ph.D. thesis, School of Statistics, Minneapolis, MN, August 2000.

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